SDMS US EPA Region V

Imagery Insert Form

Document ID: 169909

Some images in this document may be illegible or unavailable in SDMS. Please see reason(s) indicated below:

☐ Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy.

Specify Type of Document(s) / Comments:

☒ Includes __X__ COLOR or _____ RESOLUTION variations.
Unless otherwise noted, these images are available in monochrome. The source document page(s) is more legible than the images. The original document is available for viewing at the Superfund Records Center.

Specify Type of Document(s) / Comments:

PHOTOGRAPHS

☐ Confidential Business Information (CBI).
This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document.

Specify Type of Document(s) / Comments:

☐ Unscannable Material:
Oversized _____ or _____ Format.
Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. The original document is available for viewing at the Superfund Records center.

Specify Type of Document(s) / Comments:

☐ Document is available at the EPA Region 5 Records Center.

Specify Type of Document(s) / Comments:

Rev. 07/10/02

Versar INC.

5 August '98

Vince L. Epps
IDEM
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

Michael McAteer
USEPA, HSRW- 6J
77 West Jackson Blvd.
Chicago, IL 60604-3590

Re: Enviro-Chem Superfund Site
Monthly Construction Progress Report Number 8
July 1998

This Monthly Progress report has been prepared in accordance with Section XII of the Consent Decree entered September 10, 1991, Number 83419C, U.S.D.C. District of Indiana.

(1) Actions Taken Toward Achieving Compliance with Decree

a. Versar completed all the Soil Vapor Extraction (SVE) trenches and piping systems as well as shake down operation of SVE vacuum system in the central native soil. (100% complete)

b. Versar successfully closed two wells discovered under the Southern Concrete Pad (SCP). One of the wells was under artesian pressure, which required 20 yd^3 of concrete for closure. (100% complete)

c. Versar installed six dewatering wells in the northeast corner of the SCP, with a resultant draw down of the water table to 10.75 ft. Below the Top of the Concrete Pad (BTCP). (100 % complete)

d. Versar took weekly treated water effluent samples. Analytical results all passed discharge requirements and were submitted to IDEM. (100 % complete)

e. Versar pumped, treated and discharged to the north diversion channel approximately 1,975,000 gallons of water this month. (100 % complete)

f. Versar submitted a letter to IDEM notifying them that Versar will go to monthly sampling of treated water per IDEM's requirements. (100 % complete)

g. Versar completed SCP excavation, sampling and backfilling. The daily compaction testing of the Backfill was performed, results were well above minimum requirements. (98% complete)

J:\Common\ENVCHEM\Julymnrp.wpd

h. Versar dug test pits to approximately 15 feet BTCP in the southeast corner of the SCP area (inside of the shoring), at the direction of the Site Engineer, to determine the depth of contamination in this area. Contamination was discovered at up to 14 feet BTCP, which required that shoring be redriven to 23 feet BTCP to allow for safe excavation in this area. (100 % complete)

i. Versar excavated a contaminated sand seam past the southwestern edge of the shoring to the general vicinity of geotechnical boring G-4. Additional excavation occurred near the shoring on the southern remedial boundary to approximately 10 feet south of the remedial boundary.

j. The surveyors verified that the SCP area had been excavated to a minimum of 9-ft BTCP and identified areas where deeper excavation occurred, as requested by the Site Engineer. (100% complete)

k. Versar surveyed and shaped the excavation in preparation for installation of the HDPE Liner. (35 % complete)

l. Versar removed the shoring along the east wall in the SCP Area. (100% complete)

m. With the concurrence of USEPA's On-Site Representative and the Site Engineer the excavation of the SCP area was closed after exit sampling was performed by USEPA's On-Site Representative. (100 % complete)

n. Numerous thunderstorms resulted in large quantity of rain/run-off water on-site, which made construction progress slower than anticipated.

o. Environ continued weekly conference calls with USEPA, IDEM, Trustees and Versar on July 2, 10, 17, 24 and 31, 1998.

(2) Validated Results and Other Data

The only data generated during this month relates to the process water from the SCP. This data was submitted under separate cover on July 9, 20 and 23, 1998 to IDEM.

(3) Additional Work Performed

There was no "additional work" within the meaning of the Consent Decree. Work completed this month under Revised "Exhibit A" includes the steps identified in items (l) a through 0 above.

(4) Anticipated Activities for Next Month

a. Versar will complete the final dressing and grading of the SCP area, including the installation of the HDPE liner.

b. Versar will retreat the originally identified Hot Spots with Fenton reagent.

c. Versar will demobilize supplemental systems that were used during the excavation of the SCP area. The two temporary storage tanks for the on-site wastewater treatment system, the mobile wastewater treatment system, and two of the three Frac tanks will be removed from the site.

d. Versar will complete installation of the SVE System in the excavated soils deposited in the north area.

e. Versar will begin to install the Stage (1) cap on the north area and the central area.

f. Versar will begin installation of the south diversion channel and parcel 45 drainage ditches.

g. Versar will continue to process on-site run-off and SVE dewatering water. Monthly laboratory analyses will be done to assure that discharge criteria continue to be met.

(5) Problems & Resolution

Three problem were encountered during the month:

- Two wells were discovered under the SCP. The two wells were closed utilizing a cement grout. One of the two wells, which was under Artesian pressure, subsequently started leaking around the outside of the well casing. The leaking required a temporary earthen dam to hydraulically control the flow of water into the excavation. The leaking well casing was closed off utilizing a 20 yd^3 concrete plug, and the area was backfilled.

- Contamination was discovered in the southeast corner of the SCP area. Versar dug test pits to approximately 15 feet BTCP in the southeast corner of the SCP area to determine the depth of contamination in this area. Contamination was discovered at up to 14 feet BTCP, which required that shoring be redriven to 23 feet BTCP to allow for safe excavation in this area. The excavation in this area was completed to a depth of between 14 ½ and 15 feet BTCP.

- A contaminated sand seam was discovered in the general vicinity of geotechnical boring G-4. Additional excavation occurred near the shoring on the southern remedial boundary to approximately 10 feet south of the remedial boundary.

Photographs of site activities taken during the month are attached.

If you have any questions, please feel free to call me at (215) 788-7844, Extension 222

Very truly yours,

G J Anastos

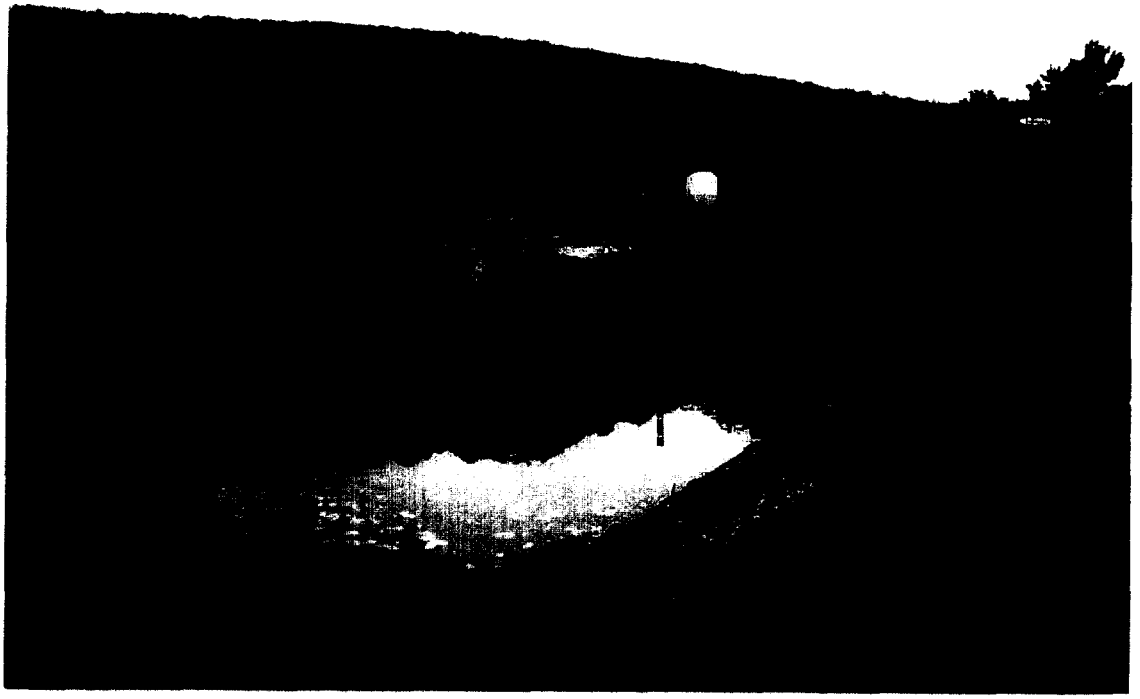
G. J. Anastos, Ph.D., P.E.
Project Manager

attachment

cc: R Ball (ENVIRON)
D Basko (Versar)
N Bernstein (NEB & A)
Joe Borucki (Versar)
M Dowiak (Radian)
J Freeman (DOJ)
C Gaffney (Versar)
R Hutchens (ENVIRON)
G Scarpone (Handex)

Site Photographs

Photograph # 1 - Looking west to east under the Southern Concrete Pad, showing two uncovered wells.



Photograph #2 - Looking south at one of the two unknown wells shown in Photograph #1 above, that was under Artesian pressure.

Photograph # 3 - Looking south showing the wet spot area adjacent to the leaking Artesian well with standing water.

Photograph # 4 - Looking south showing the interior of the corrugated pipe around the unknown Artesian well filled with concrete and 20 yd^3 of concrete around the corrugated pipe.

Photograph # 5 - Looking south at the excavation showing the closed unknown Artesian well and hot spot wells. Visqueen has been placed on the west and south walls to provide temporary protection from rainfall.

Photograph #6 - Looking north at the dewatering wells installed in the northeast corner of the Southern Concrete Pad Area.

Photograph # 7 - Looking north from the top of one of the Frac tanks at the excavation in the southeast corner of the Southern Concrete Pad Area. Shoring along the eastern and southern Remedial Boundary is visible.

Photograph #8 - Looking south at the southeastern corner of the Southern Concrete Pad Area excavation at approximately nine feet below the top of the concrete pad. Test pits were dug to investigate the depth of contamination.